

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT SOUTHBOUND US 1 & BOWIE ROAD IN PRINCE GEORGE'S COUNTY. THE MODIFICATIONS CONSIST OF INSTALLING NEW LOOP DETECTORS ON THE EAST LEG OF THE INTERSECTION DUE TO NEW GEOMETRICS AND PAVEMENT MARKINGS ALONG US ROUTE 1.

INTERSECTION OPERATION

THIS INTERSECTION OPERATES IN A NEMA TWO PHASE, SEMI-TRAFFIC-ACTUATED MODE, WITH THE SOUTHBOUND US 1 MOVEMENTS AND THE WESTBOUND MOVEMENTS OPERATING AS SEPARATE PHASES. A PEDESTRIAN PHASE IS PROVIDED ALONG THE EAST LEG OF THE INTERSECTION THERE IS ALSO A SIGNAL PRE-EMPTION PROVIDED ON THE WESTBOUND LEG.

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT # 3 ARE AS FOLLOWS:

MR. CHARLIE WATKINS
DISTRICT ENGINEER
PHONE: (301)-513-7300

MR. AUGIE REBISH
UTILITY ENGINEER
PHONE: (301)-513-7350

MR. MAJID SHAKIB
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (301)-513-7358

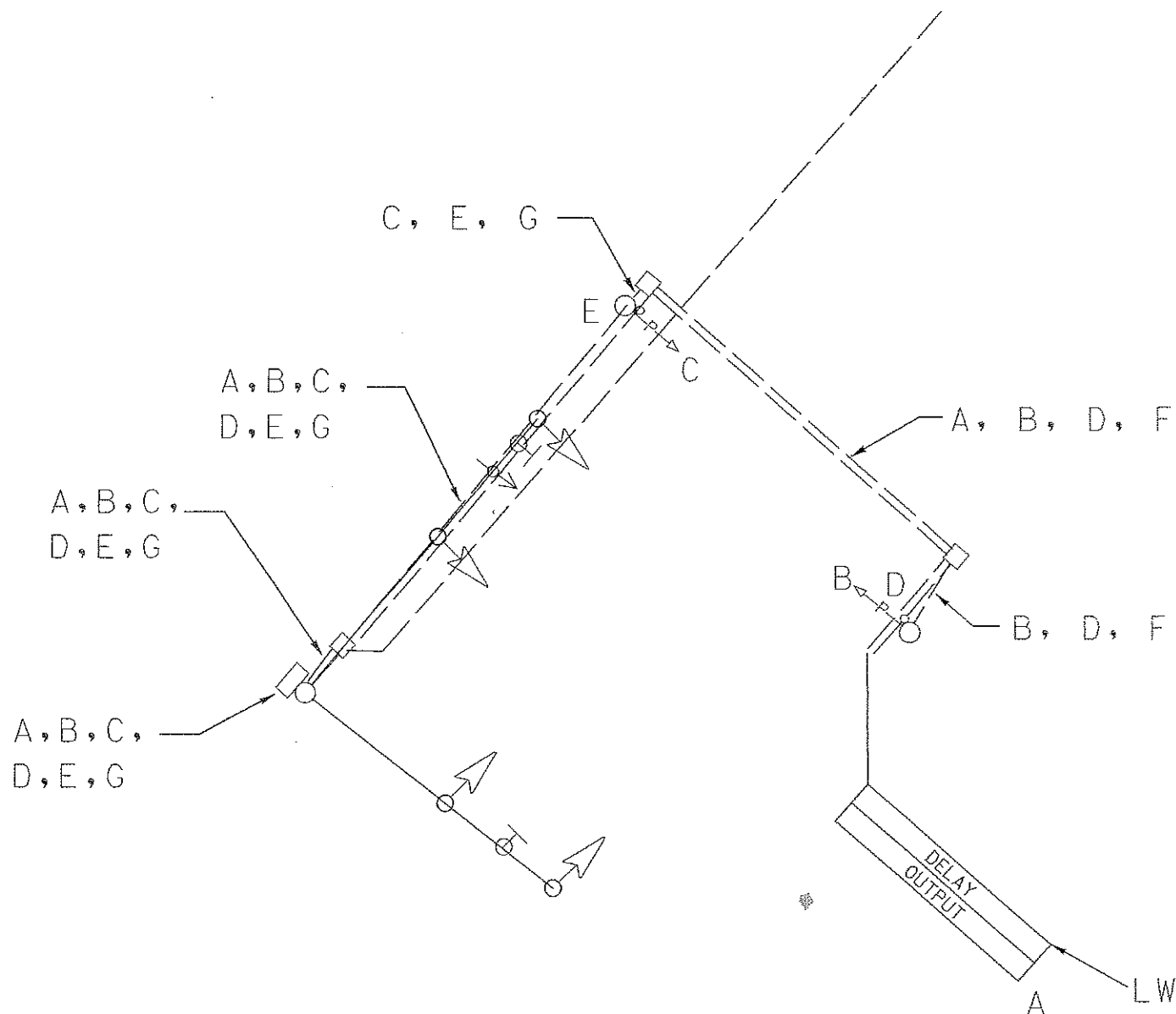
MR. RANDY BROWN
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (301)-513-7304

EQUIPMENT LIST "B"

B. EQUIPMENT FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

CATEGORY CODE NO.	QUANTITY	DESCRIPTION
585620	100 L.F.	FURNISH AND INSTALL 12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
585624	100 L.F.	FURNISH AND INSTALL 24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
801605	19 S.F.	FURNISH AND INSTALL SHEET ALUMINUM SIGNS TO CONSIST OF: - 1 EACH ASSOCIATED SHIELD ASSEMBLY "SOUTH, US 1, LEFT ARROW" (36"x75") - POLE MOUNT
802501	200 L.F.	FURNISH AND INSTALL NO 6 A.W.G. STRANDED BARE COPPER GROUND WIRE
805150	180 L.F.	FURNISH AND INSTALL 3 INCH SCHEDULE 80 RIGID POLYVINYL CHLORIDE CONDUIT - SLOTTED
805160	20 L.F.	FURNISH AND INSTALL 1 INCH LIQUID-TIGHT, FLEXIBLE NON-METALLIC CONDUIT DETECTOR SLEEVE
813015	19 S.F.	INSTALL OVERHEAD SIGN
811001	1 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
861104	200 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR ALUMINUM SHIELDED (NO. 14 A.W.G.)
861105	350 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G.)
861106	350 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 3 CONDUCTOR (NO. 14 A.W.G.)
861107	300 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)
862101	550 L.F.	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING
862102	180 L.F.	FURNISH AND INSTALL SAW CUT FOR SIGNAL
800000	LS	REMOVE AND DISPOSE OF EXISTING EQUIPMENT

WIRING DIAGRAM



WIRING LEGEND

- B, C - 3 CONDUCTOR ELECTRICAL CABLE (NO 14 AWG)
- D, E - 2 CONDUCTOR ELECTRICAL CABLE (NO 14 AWG)
- A - 2 CONDUCTOR ELECTRICAL CABLE (ALUMINUM SHIELDED) (NO 14 AWG)
- LW - LOOP WIRE (NO 14 AWG.)
- F, G - STRANDED BARE COPPER GROUND WIRE (NO 6 AWG)

PHASE CHART

	1	2	3	4	5	6	
PHASE 2	G	G	R	R	DWDW	DWDW	←
2 CHANGE	Y	Y	R	R	DWDW	DWDW	←
PHASE 8	R	Y	G	G	DWDW	DWDW	←
8 CHANGE	R	R	Y	Y	DWDW	DWDW	←
ALT PHASE 8	R	R	G	G	W	W	←
PED CLEAR	R	R	G	G	FL DW	FL DW	←
ALT 8 CHANGE	R	R	Y	Y	DWDW	DWDW	←
PRE-EMPT	R	R	G	G	DWDW	DWDW	←
PRE-EMPT CHANGE	R	R	Y	Y	DWDW	DWDW	←
FLASHING OPERATION	FL Y	FL Y	FL R	FL R	DARK	DARK	←

TSP-12 OF TSP-17

KCI
TECHNOLOGIES INC.
ENGINEERS AND PLANNERS
10 NORTH PARK DRIVE
HUNT VALLEY, MARYLAND
21030-1888
(410) 316-7800

REVISIONS	APPROVALS
① NEW GEOMETRICS AND PAVEMENT MARKINGS	TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
② REPLACE INTERCONNECT DUE TO NEW DRAINAGE 12/93	ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
③ INSTALL PED SIGNALS 3/93	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
④ INSTALL OPTICOM PRE-EMPTION WB BOWIE RD 3/93	DIRECTOR, TRAFFIC & SAFETY
⑤	



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
US 1 OAK STREET TO TALBOTT AVENUE (MD 198)
GENERAL INFORMATION SHEET
SOUTHBOUND US 1 @ BOWIE ROAD

DRAWN BY: A. HOTTENSEN	F.A.P. NO. PG2745184	SEE TITLE SH.	TS NO. 1632F	SHEET NO.
CHECKED BY:	S.H.A. NO.	PRINCE GEORGE'S	T.I.M.S. NO.	
SCALE:	COUNTY:	LOG MILE: 116000/13.50		
DATE: 11/99				124 OF 162

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